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APPLICATION NO.	FILD	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,860	07/15/2003		Antonio S. Cruz-Uribe	200309104-1	9136
22879	7590	12/20/2005	EXAMINER		
		D COMPANY E. HARMONY RO	TENTON	TENTONI, LEO B	
	,	PERTY ADMINIS	ART UNIT	PAPER NUMBER	
FORT COLI	LINS, CO	80527-2400	1732		

DATE MAILED: 12/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
•	10/620,860	CRUZ-URIBE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Leo B. Tentoni	1732					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
. 1) Responsive to communication(s) filed on 07 Oc	<u>ctober 2005</u> .						
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.						
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) ☐ Claim(s) 1-56 is/are pending in the application. 4a) Of the above claim(s) 43-56 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-42 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.						
Application Papers		·					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the original transfer of the correction is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 12. **The oath or declaration is objected to by the Examiner 13. **The oath or declaration is objected to by the Examiner 14. **The oath or declaration is objected to by the Examiner 15. **The oath or declaration is objected to by the Examiner 16. **The oath or declaration is objected to by the Examiner 17. **The oath or declaration is objected to by the Examiner 18. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath of the oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The oath or declaration is objected to by the Examiner 19. **The o	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage					
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:						
Data-data-data-dam							

Application/Control Number: 10/620,860 Page 2

Art Unit: 1732

DETAILED ACTION

1: The rejection of claims 1-26 and 39-42 under 35 USC § 102(b) and the rejection of claims 27-38 under 35 USC § 103(a) with respect to Knoppers et al (WO 03/027960 A2) set forth in the previous Office Action (mailed on 08 July 2005) are withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-26, 37 and 39-42 are rejected under 35
 U.S.C. 102(b) as being anticipated by Kieronski (U.S. Patent 6,364,986 B1) for the reasons of record.
- 4. Claims 1-26 and 39-42 are rejected under 35 U.S.C. 102(b) as being anticipated by Greul et al (DE 19537264 Al) for the reasons of record.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 10/620,860

Art Unit: 1732

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 3

- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

 Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claims 1-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kieronski (U.S. Patent 6,364,986 B1) for the reasons of record.
- 8. Claims 27-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greul et al (DE 19537264 A1) for the reasons of record.

Application/Control Number: 10/620,860

Art Unit: 1732

Response to Arguments

Page 4

- 9. Applicant's arguments filed on 07 October 2005 have been fully considered but they are not persuasive.
- 10. Applicant argues (pages 10-13) that Kieronski does not anticipate the claims and does not render the claimed subject matter obvious. Examiner responds that Kieronski teaches forming a boundary structure (Figs. 1A-1C, 12 and 14) and depositing a flowable material (Figs. 1A-1C, 30). Kieronski uses stereolithography (which is deemed to meet the recitation of "selectively depositing") and renders selective deposition modeling obvious as these are two of the common methods used in solid freeform fabrication. Also, the number of boundary structures and porous products would have been obvious to one of ordinary skill in the art at the time the invention was made in the process of Greul et al principally in order to produce a desired final object.
- 11. Applicant argues (pages 13, 15 and 16) that Greul et al do not anticipate the claims and do not render the claimed subject matter obvious. Examiner responds that Greul et al teach forming a boundary structure (Figs. 1 and 2, mold halves) by selective deposition modeling and depositing a flowable material (in the formed mold). The number of boundary structures and porous products would have been obvious to one of ordinary skill in the

Application/Control Number: 10/620,860

Art Unit: 1732

art at the time the invention was made in the process of Greul et al principally in order to produce a desired final object.

Conclusion

Page 5

12. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leo B. Tentoni whose telephone number is (571) 272-1209. The examiner can normally be reached on Monday - Friday (6:30 A.M. - 3:00 P.M.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Colaianni

Application/Control Number: 10/620,860 Page 6

Art Unit: 1732

can be reached on (571) 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leo B. Ventoni

Leo B. Tentoni Primary Examiner Art Unit 1732

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